iOS Goods Movement App for SAP Business ByDesign®

The iOS Goods Movement App for SAP Business ByDesign® has been designed to be really simple to use, especially if you have barcoded labels and logistics area locations within your warehouse. The app is available on the App Store at https://apps.apple.com/us/app/goods-move/id1551015608.

To save a goods movement via the app you only need to enter the source logistics area (where you are taking the goods from), the product code, identified stock ID if applicable, the quantity being moved and the target logistics area (where you are moving the goods to).

Then just press the 'Confirm' button!

If you have enabled multiple line items in the app settings then the process is very similar, just press the 'Add Item' button after each product and when you have added the last one, scan the target logistics area and then press 'Confirm' to save the goods movement.

SINGLE ITEM GOODS MOVEMENT

MULTI-LINE ITEM GOODS MOVEMENT

If you have barcodes configured for your logistics areas and products you can simply press the barcode icon to the right of the source and target logistics area fields, or the 'Scan Product Label' button, as required.

The app supports many barcode types although it is recommended that you use QR codes if possible, as the iPhone decodes these much quicker and from a further distance than 1D barcodes.

The barcode types supported are:

1D: Code 128, Code 39, Code 39 (Mod43), Code 93, EAN8, EAN13, Interleaved 2 of 5, ITF-14, UPC-E

2D: QR Code, PDF417, Data Matrix, Aztec

When you scan the product label barcode, the app will query your SAP Business ByDesign system to get the label details, including product details, identified stock (if applicable) and the quantity on the label. This may take a few seconds depending upon your network speed. You can amend the quantity to be moved manually if you are moving a different quantity from the label quantity.

Please note that the product description will only appear if you are scanning a product label. For manual entry, only the product ID is required.
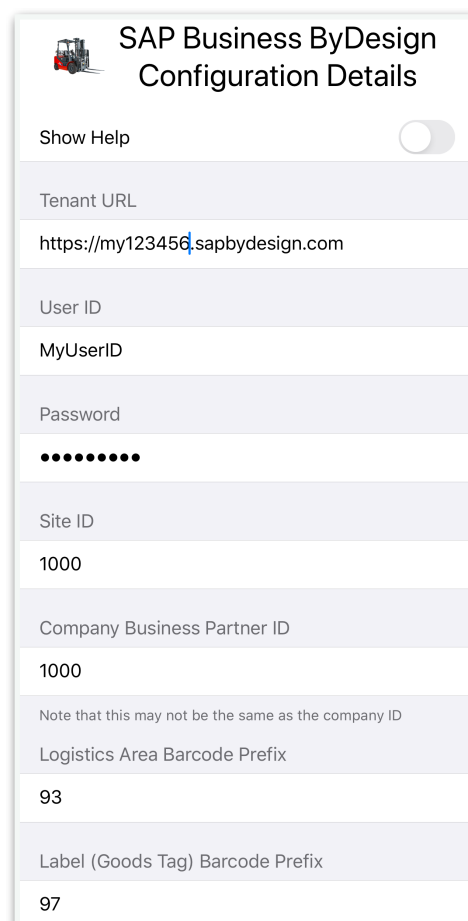
Application Settings

The first time you use the app you will be directed to the application settings screen where you can enter your SAP Business ByDesign system URL and the communication arrangement username and password that will be used to connect to your system. You must also enter your company business partner and site ID - please remember that if you go to a different warehouse or another site you will need to update this before completing any goods movements!

Be aware that your company business partner ID may not be the same as the company ID used in the system. You can determine this by searching for your company name in the Business Partners work centre or, if in doubt, please ask your system administrator or SAP partner.

If you are using application identifiers on your barcodes, which is quite common if you are producing them from the system, then you can enter these here too.

The standard SAP Business ByDesign application identifiers are:

- Logistics Area: 93
- Label ID: 97

SAP Business ByDesign Configuration Details

Show Help

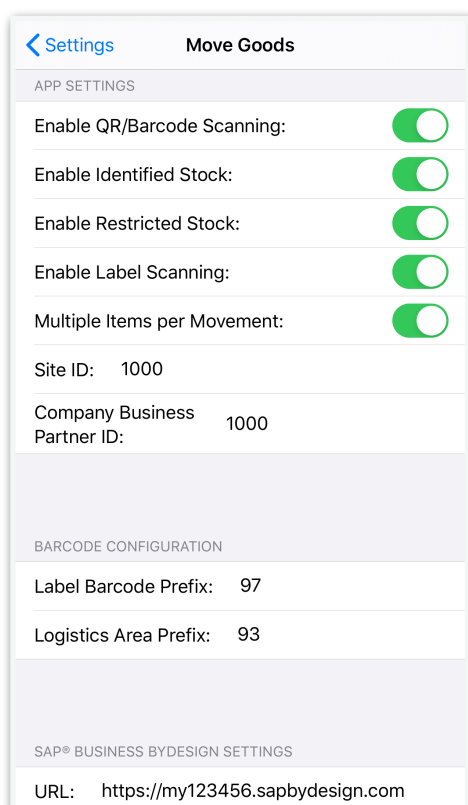Tenant URL
https://my123456.sapbydesign.com

User ID
MyUserID

Password
•••••••••

Site ID
1000

Company Business Partner ID
1000
Note that this may not be the same as the company ID

Logistics Area Barcode Prefix
93

Label (Goods Tag) Barcode Prefix
97

Settings — Move Goods

APP SETTINGS

Enable QR/Barcode Scanning:

Enable Identified Stock:

Enable Restricted Stock:

Enable Label Scanning:

Multiple Items per Movement:

Site ID: 1000

Company Business Partner ID: 1000

BARCODE CONFIGURATION

Label Barcode Prefix: 97

Logistics Area Prefix: 93

SAP® BUSINESS BYDESIGN SETTINGS

URL: https://my123456.sapbydesign.com

Within the iPhone settings app, you have some additional configuration options to disable barcode scanning, disable identified stock and update the settings available within the app itself. You can also amend the permissions for camera access and check which version of the app you have installed.

Enable QR/Barcode Scanning: This enables or disables logistics area barcode scanning

Enable Label Scanning: This enables or disables the ability to scan a product label

Enable Identified Stock: This enables or disables the identified stock field; however a scanned label will always include the identified stock regardless of this app setting

Enable Restricted Stock: This enables or disables the restricted stock option for goods movements

Multiple Items per Movement: This enables the ability to move multiple items in one goods movement. Disable this if you only ever move one item at a time

SAP Business ByDesign Configuration

In order for the app to work with your SAP Business ByDesign system you will need to create a new communication arrangement.

You can view the official Communication Arrangements Quick Guide at: https://help.sap.com/docs/SAP_BUSINESS_BYDESIGN/7c182c462ec043cba338a30b952068c7/2dd4cb73722d1014938ec0c0927d57ed.html?locale=en-US

Please ensure you set the user authentication method to be username and password.

The web services, or APIs, required for the Goods Movement app are:

- Read Goods Tags
- Query Identified Stocks
- Query Materials
- Create Goods and Activity Confirmations for Goods Movements
- Query Code Lists

To create the communication arrangement, please follow these steps:

1. Go to Application and User Management - Communication Systems
2. Create a new communication system:
   2.1. ID: GOODSMOVE
   2.2. Host Name: GOODSMOVE
   2.3. System Access Type: Internet
   2.4. Add a System Instance with ID: GOODSMOVE and Preferred Application Protocol: 5 - Web Service
   2.5. Click Save and then activate it (Actions button)
   2.6. Finally click Save and Close

Basic Information

		Internal Comment
ID:*	GOODSMOVE	
SAP Business Suite:	☐	
Host Name:	GOODSMOVE	
System Access Type:*	Internet ▾	

Technical Contact

First Name:	
Last Name:	
Email:	
Phone:	
Fax:	

System Instances

[Add Row] | [Remove]

System Instance ID	Preferred Application Protocol
GOODSMOVE	5 - Web Service ▾

3. Now go to Application and User Management - Communication Scenarios
4. Create a new communications scenario:
    4.1. Communication Scenario Name: GOODSMOVE
    4.2. Add the following operations (there are the Service Descriptions):
        4.2.1. Create Goods and Activity Confirmations for Goods Movements
        4.2.2. Read Goods Tag
        4.2.3. Query Identified Stocks
        4.2.4. Query Materials
        4.2.5. Query Code Lists

Available Operations

Add Ope…	Relea… Status	Operation Description	Service Description	Service Name
☐	☐	Create goods and activity confirmati…	Create Goods and Activity Confirmations	InventoryProcessing(
☐	☐	Create goods and activity confirmati…	Create Goods and Activity Confirmations	InventoryProcessing(
☐	☐	Create goods and activity confirmati…	Create Goods and Activity Confirmations	InventoryProcessing(
☑	☐	Create goods and activity confirmati…	Create Goods and Activity Confirmations for Goods Movements	InventoryProcessing(

Communication Scenario Name :   *****   `GOODSMOVE`

Assigned Operations

[Remove] | [Add Operations]

Release St…	Operation Description	Service Description	Service Name	Dependent Object Service
☐	Create goods and activity confirmations …	Create Goods and Activity Confirmation…	InventoryProcessingGoodsAndA…	☐
☐	Find code lists	Query Code Lists	QueryCodeListIn	☐
☐	Find identified stocks	Query Identified Stocks	QueryIdentifiedStocksIn	☐
☐	Find materials	Query Materials	QueryMaterialIn	☐
☐	Read goods tags	Read Goods Tag	ManageGoodsTagIn	☐

    4.3. Click Save and Close to finish

5. Go to Application and User Management - Communication Arrangements
6. Click New to create a new communication arrangement:
    6.1. Communication scenario = GOODSMOVE

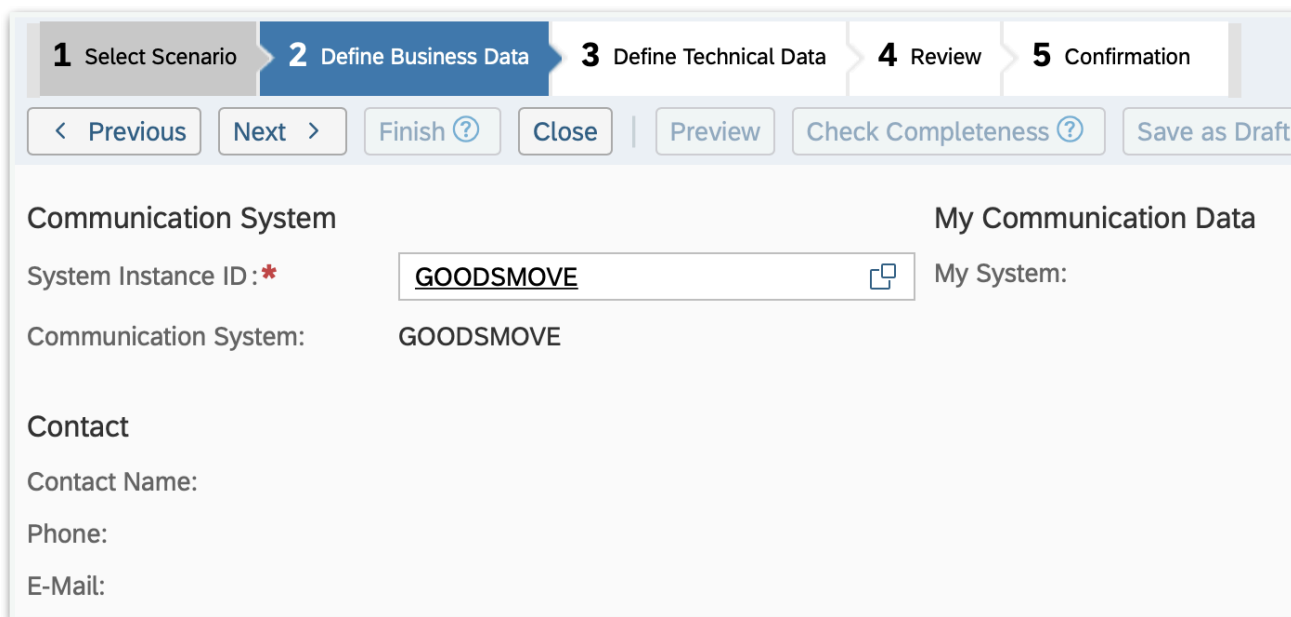| **1** Select Scenario	**2** Define Business Data	**3** Define Technical Data	**4** Review	**5** Confirmation

[< Previous] [Next >] [Finish ⑦] [Close] | [Preview] [Check Completeness ⑦] [Save as Draft ⑦]

Communication Scenarios

Communication Scenario 🔽	Communication Type
GOODSMOVE Communication Scenario	Application Integration

6.2. Click Next
6.3. System Instance ID = GOODSMOVE

| 1 Select Scenario | 2 Define Business Data | 3 Define Technical Data | 4 Review | 5 Confirmation |

< Previous | Next > | Finish ? | Close | Preview | Check Completeness ? | Save as Draft

Communication System

System Instance ID: *   GOODSMOVE

Communication System: GOODSMOVE

My Communication Data

My System:
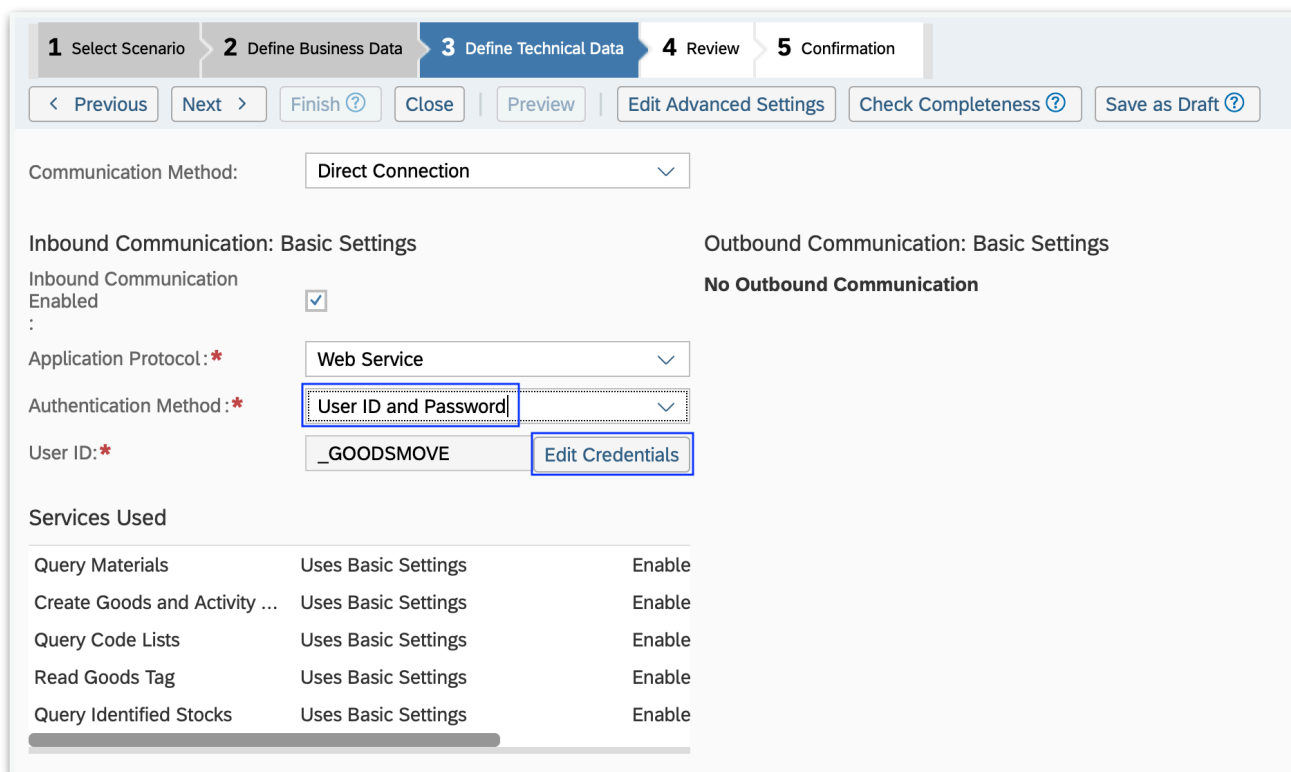
Contact

Contact Name:

Phone:

E-Mail:

6.4. Click Next
6.5. Authentication Method = User ID and Password
6.6. Click Edit Credentials to set the password

| 1 Select Scenario | 2 Define Business Data | 3 Define Technical Data | 4 Review | 5 Confirmation |

< Previous | Next > | Finish ? | Close | Preview | Edit Advanced Settings | Check Completeness ? | Save as Draft ?

Communication Method: Direct Connection

Inbound Communication: Basic Settings

Inbound Communication Enabled: ☑

Application Protocol: *   Web Service

Authentication Method: *   User ID and Password

User ID: *   _GOODSMOVE   Edit Credentials

Outbound Communication: Basic Settings

No Outbound Communication

Services Used

Query Materials	Uses Basic Settings	Enable
Create Goods and Activity ...	Uses Basic Settings	Enable
Query Code Lists	Uses Basic Settings	Enable
Read Goods Tag	Uses Basic Settings	Enable
Query Identified Stocks	Uses Basic Settings	Enable

6.7. Click Next
6.8. Click Finish

Now use the user ID _GOODSMOVE and the password you entered in step 6.6 in the app settings!